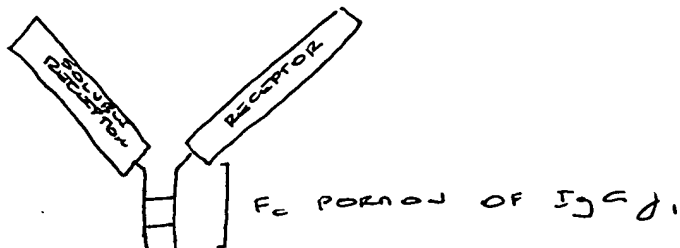


# CONSTRUCTION PLAN IgG $\gamma_1$ VECTOR

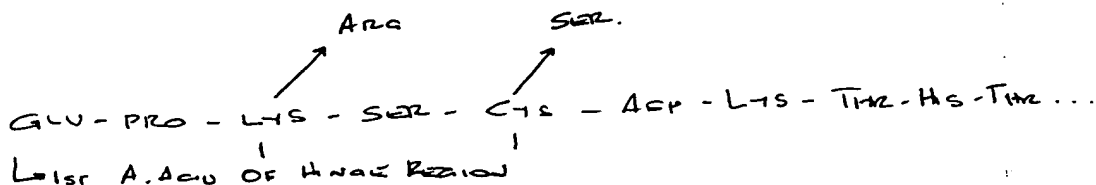
PURPOSE: WILL BUILD A VECTOR FOR EXPRESSION OF SOLUBLE RECEPTORS FUSED TO IgG $\gamma_1$  HEAVY CHAIN. THIS EXPRESSION SYSTEM ALLOWS AN EASY WAY TO PURIFY SOLUBLE RECEPTOR OVER A PHENYL A COLUMN. IT THEN PROVIDES A HANDLE FOR USING IN GELING AFTER LIGAND.



- IgG PORTION OF FUSION INCLUDES HINGE REGIONS CH<sub>2</sub>, CH<sub>3</sub>
- FUSION IS CONSTRUCTED AS A MONOMER BUT DIMERIZES VIA IT'S TWO CYSTEINE'S IN THE HINGE REGION

PLAN

5'



↳ LYS CHANGED TO ARGinine TO ALLOW CONSTRUCTION OF Bgl II SITE (FANSLAW, ET AL. J. OF IMMUNOL. 149: 655-660)

↳ CYS CHANGED TO SER JUL 15, 1992. TO ELIMINATE UNBOUND CYS IN HINGE REGION. THIS CYS NORMALLY BIND WITH CHAIN, BUT LIKELY CHAIN IS NOT NECESSARY FOR CREATION OF A FUNCTIONAL FUSION (BENNETT, ET AL. J. OF BIO. CHEMISTRY 266 (34) 23060-23067 DEC 5, 1991)

3'

WILL BE IDENTICAL TO NATURE